

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/643,752
Source:	Oipe
Date Processed by STIC:	8-25-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/643, 752
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (1) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Kules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 \(\) Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



DATE: 08/25/2003

OIPE

PATENT APPLICATION: US/10/643,752 TIME: 14:10:45 Input Set : A:\LS5-001.ST25.txt Output Set: N:\CRF4\08252003\J643752.raw 3 <110> APPLICANT: Liu, David R. Gartner , Zev J. 5 Doyon, Jeffrey B. 6 Calderone , Christopher T. 7 Kanan, Matthew W. Li, Xiaoyu Snyder, Thomas M. Rosenbaum, Daniel M. 10 12 <120> TITLE OF INVENTION: Evolving New Molecular Function 14 <130> FILE REFERENCE: LS5-001 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/643,752 Does Not Comply C--> 16 <141> CURRENT FILING DATE: 2003-08-19 Corrected Diskette Needed 16 <150> PRIOR APPLICATION NUMBER: US 60/404.395 17 <151> PRIOR FILING DATE: 2002-08-19 19 <150> PRIOR APPLICATION NUMBER: US 60/419,667 20 <151> PRIOR FILING DATE: 2002-10-18 P. 2-6 22 <150> PRIOR APPLICATION NUMBER: US 60/432,812 23 <151> PRIOR FILING DATE: 2002-12-11 25 <150> PRIOR APPLICATION NUMBER: US 60/444,770 26 <151> PRIOR FILING DATE: 2003-02-04 28 <150> PRIOR APPLICATION NUMBER: US 60/457,789 29 <151> PRIOR FILING DATE: 2003-03-26 31 <150> PRIOR APPLICATION NUMBER: US 60/469,866 32 <151> PRIOR FILING DATE: 2003-05-12 34 <150> PRIOR APPLICATION NUMBER: US 60/479,494 35 <151> PRIOR FILING DATE: 2003-06-18 37 <160> NUMBER OF SEQ ID NOS: 125 39 <170> SOFTWARE: PatentIn version 3.1 41 <210> SEQ ID NO: 1 42 <211> LENGTH: 64 43 <212> TYPE: DNA 44 <213> ORGANISM: Artificial Sequence 46 <220> FEATURE: 47 <223> OTHER INFORMATION: Template Encoding Parent Molecule 1 49 <400> SEQUENCE: 1 50 cgagcagcac cagcgcactc cgcctggatc cgccccgggt gcacgcgact cctacgggct 60 52 ccaa 64 55 <210> SEQ ID NO: 2 56 <211> LENGTH: 64 57 <212> TYPE: DNA 58 <213> ORGANISM: Artificial Sequence 60 <220> FEATURE: 61 <223> OTHER INFORMATION: Template Encoding Parent Molecule 2

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING

DATE: 08/25/2003 643,752 TIME: 14:10:45

PATENT APPLICATION: US/10/643,752

Input Set : A:\LS5-001.ST25.txt

Output Set: N:\CRF4\08252003\J643752.raw

63 <400> SEQUENCE: 2	
64 cgagcagcac cagcgagtcc cgcctgggga tgccccgggt gggcgcgact ccaacgg	gct 60
66 ccaa	64
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70 <211> LENGTH: 64	
71 <212> TYPE: DNA	
72 <213> ORGANISM: Artificial Sequence	
74 <220> FEATURE:	
75 <223> OTHER INFORMATION: Recombined Daughter Template 77 <400> SEQUENCE: 3	
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80 ccaa	gct 60 64
83 <210> SEQ ID NO: 4	04
84 <211> LENGTH: 64	
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86 <213> ORGANISM: Artificial Sequence	
88 <220> FEATURE:	
89 <223> OTHER INFORMATION: Recombined Daughter Template	
91 <400> SEQUENCE: 4	
92 cgagcagcac cagcgagtcc cgcctggatc cgccccgggt gcacgcgact ccaacgg	act 60
94 ccaa	64
97 <210> SEQ ID NO: 5	
98 <211> LENGTH: 10	·
99 <212> TYPE: DNA	
100 <213> ORGANISM: Artificial Sequence	
102 <220> FEATURE:	Lesbouse
102 <220> FEATURE: 103 <223> OTHER INFORMATION: Reagent	nice of response
102 <220> FEATURE: 103 <223> OTHER INFORMATION: Reagent 105 <400> SEQUENCE: 5 106 Pattograph	response
102 <220> FEATURE: 103 <223> OTHER INFORMATION: Reagent 105 <400> SEQUENCE: 5 106 aattcgtacc 109 <210> SEO ID NO: 6	response surce of erial. erich-10
102 <220> FEATURE: 103 <223> OTHER INFORMATION: Reagent 105 <400> SEQUENCE: 5 106 aattcgtacc 109 <210> SEQ ID NO: 6 110 <211> LENGTH: 11	response erial. error 10
102 <220> FEATURE: 103 <223> OTHER INFORMATION: Reagent 105 <400> SEQUENCE: 5 106 aattcgtacc 109 <210> SEQ ID NO: 6 110 <211> LENGTH: 11 111 <212> TYPE: DNA	response surce of erial. error-10 ort.
103 <223> OTHER INFORMATION: Reagent 105 <400> SEQUENCE: 5 106 aattcgtacc 109 <210> SEQ ID NO: 6 110 <211> LENGTH: 11 111 <212> TYPE: DNA	response surce of erial. herror 10 ort.
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114 <220> FEATURE:	response surce of erial. herror ¹⁰ ort.
112 (213) ONGANISM. ALCITICIAL Sequence	response surce of erial. error 10 ort.
114 <220> FEATURE: 115 <223> OTHER INFORMATION: Template E 117 <400> SEQUENCE: 6 118 tggtacgaat t	response surce of erial. error 10 ort.
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/643,752

DATE: 08/25/2003
TIME: 14:10:45

Input Set : A:\LS5-001.ST25.txt

Output Set: N:\CRF4\08252003\J643752.raw

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    139 <223> OTHER INFORMATION: Template
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    148 <213> ORGANISM: Artificial Sequence
    150 <220> FEATURE:
    151 <223> OTHER INFORMATION
                                  Reagent
    153 <400> SEQUENCE: 9
                                                                                10
    154 cccgagtcga
    157 <210> SEQ ID NO: 10
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    159 <212> TYPE: DNA
    160 <213> ORGANISM: Artificial Sequence
    162 <220> FEATURE:
    163 <223> OTHER INFORMATION: Template
    165 <400> SEQUENCE: 10
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    169 <210> SEQ ID NO: 11
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    177 <220> FEATURE:
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    180 <223> OTHER INFORMATION: N is A, C, T or G
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     190 <221> NAME/KEY: misc feature
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     205 <210> SEQ ID NO: 12
     206 <211> LENGTH: 10
     207 <212> TYPE: DNA
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210 <220> FEATURE:

208 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/643,752 Input Set: A:\LS5-001.ST25.txt

```
Output Set: N:\CRF4\08252003\J643752.raw
     211 <223> OTHER INFORMATION
                                   Reagent
     213 <400> SEQUENCE: 12
     214 cacccqtcac
                                                                                 10
     217 <210> SEQ ID NO: 13
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     220 <213> ORGANISM: Artificial Sequence
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     232 <221> NAME/KEY: misc_feature
     233 <222> LOCATION: (5)..(5)
     234 <223> OTHER INFORMATION: N is A, T, C or G
     237 <220> FEATURE:
     238 <221> NAME/KEY: misc_feature
     239 <222> LOCATION: (7)...(7)
     240 <223> OTHER INFORMATION: N is A, T, C or G
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     244 <221> NAME/KEY: misc_feature
     245 <222> LOCATION: (9)..(9)
     246 <223> OTHER INFORMATION: N is A, T, C or G
     249 <400> SEQUENCE: 13
W--> 250 cnngntngnc
                                                                                 10
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     254 <211> LENGTH: 11
     255 <212> TYPE: DNA
     256 <213> ORGANISM: Artificial Sequence
     258 <220> FEATURE:
     259 <223> OTHER INFORMATION: Template 1a-1c
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     262 tggtacgaat t
                                                                                 11
     265 <210> SEQ ID NO: 15
     266 <211> LENGTH: 17
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     268 <213> ORGANISM: Artificial Sequence
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     273 <400> SEQUENCE: 15
    274 ttaacgagag atagtct
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    278 <211> LENGTH: 23
    279 <212> TYPE: DNA
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    282 <220> FEATURE:
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283 <223> OTHER INFORMATION: Template 3a-3c

RAW SEQUENCE LISTING DATE: 08/25/2003 PATENT APPLICATION: US/10/643,752 TIME: 14:10:45

Input Set : A:\LS5-001.ST25.txt

Output Set: N:\CRF4\08252003\J643752.raw

		SEQUENCE: 16	
		acaga gtagtctaat gac	23
		SEQ ID NO: 17	
		LENGTH: 14	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
295	<223>	OTHER INFORMATION: Reagent 4a-4c	
		SEQUENCE: 17	
	_	attcg tacc	14
		SEQ ID NO: 18	
		LENGTH: 16	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Reagent 5a-5c	
		SEQUENCE: 18	
		Ctoto togtta	16
		SEQ ID NO: 19 LENGTH: 18	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Reagent 6a-6c	
		SEQUENCE: 19	
		agcct ctgtagat	18
		SEQ ID NO: 20	10
		LENGTH: 11	
		TYPE: DNA	
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		OTHER INFORMATION: Template 15	
		SEQUENCE: 20	
		atcag c	11
337	<210>	SEQ ID NO: 21	
338	<211>	LENGTH: 11	
339	<212>	TYPE: DNA	
340	<213>	ORGANISM: Artificial Sequence	
342	<220>	FEATURE:	
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		LENGTH: 11	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
355	<223>	OTHER INFORMATION: Template 18	
357	<400>	SEQUENCE: 22	

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/25/2003 PATENT APPLICATION: US/10/643,752 TIME: 14:10:46

Input Set : A:\LS5-001.ST25.txt

Output Set: N:\CRF4\08252003\J643752.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 17,19,21,23,24

Seq#:13; N Pos. 2,3,5,7,9

Seq#:31; N Pos. 11,12,13,14,15,16,22,23,24,25,26,27,33,34,35,36,37,38

Seq#:34; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36

Seq#:60; N Pos. 14

VERIFICATION SUMMARY

DATE: 08/25/2003

PATENT APPLICATION: US/10/643,752

TIME: 14:10:46

Input Set : A:\LS5-001.ST25.txt

Output Set: N:\CRF4\08252003\J643752.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0 L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0 L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0